Name	:	Dr. Akath Singh
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Field of Specialization	:	Horticulture-Fruit Science
M.Sc. degree	:	Dr. Y.S. Parmar, UHF, Nauni, Solan H.P.
Ph.D. degree	:	Banaras Hindu University, Varanasi U.P.
Joining date in ICAR	:	29/12/2003

Variety

Crop	Name of variety	Notified by
Guava	Megha Magenta	CVRC New Delhi
	Megha Wonder	SVRC Meghalaya
	Megha Seedless	SVRC Meghalaya
	Megha Supreme	SVRC Meghalaya
Pomegranate	CAZRI Vishal	ICAR-CAZRI Jodhpur
Ber	CAZRI Gola	SVRC, Rajasthan
Lasora	Maru Samridhi	SVRC, Rajasthan
Karonda	Maru Gaurav	SVRC, Rajasthan

Technology/Methodology/Concept

- Integrated management of nematode in pomegranate orchard
- Rejuvenated ber based Agri-Horti . system
- Agri-horti rainfed IFS model (2 ha) for arid zone
- Suitable protected cultivation structure for arid region vegetable production
- Suitable rootstocks based sustainable greenhouse tomato production under limited water conditions
- Sustainable water and energy harvesting system for pomegranate in limited water conditions
- Mass multiplication of ber in polytubes
- Pollination and bunch management in date palm
- Microencapsulation of pomegranate seed oil

Publications (Top 10 Publications with first or corresponding author only):

1. Akath Singh, B.K. Singh, B.C. Deka, S.K. Sanwal, R. K. Patel, M.R. Verma. 2011. The genetic variability, inheritance and inter-relationships of ascorbic acid, β-carotene, phenol and anthocyanin content in strawberry. *Scientia Horticulturae* 129:86-90
2. Akath Singh, Agreesia Syndore, B.C. Deka, R.K. Singh, R. K. Patel. 2012. The Effect of Microclimate inside low tunnels on off-season production of strawberry (*Fragaria x ananassa* Duch.). *Scientia Horticulturae* 144:36-41
3. Ankit Dongariyal , D. C. Dimri, P. Kumar , A. Choudhary, P. K. Jat , B. Basile , A. Mataffo , G. Corrado and Akath Singh*. 2022. Pollen-Pistil Interaction in Response to Pollination Variants in Subtropical Japanese Plum Varieties. *Plants* , *11*, 3081-3095
4. Akath Singh, S. Swami, N. R. Panwar, M. Kumar, A. K. Shukla, Y. Rouphael, L. Sabatino and P. Kumar. 2022. Development Changes in the Physicochemical Composition and Mineral Profile of Red-Fleshed Dragon Fruit Grown under Semi-Arid Conditions. *Agronomy* 12:355-369.
5. Akath Singh, A. Nath, Juri Buragohain, B. C. Deka. 2008. Quality and shelf life of strawberry fruits in different packages during storage. *J. Food Science & Technology* 45 (5):439-442
6. Akath Singh, D.S. Yadav, R.K. Patel, Mousumi Bhuyan. 2007. Effect on Shelf life and quality of passion fruit with polythene packaging under specific temperature. *J. Food Science & Technology,* 44 (2): 201-204
7. Akath Singh, R. K. Kaul, P. S. Khapte, K. S. Jadon, Y. Rouphael, B. Basile, P. Kumar. 2022. Root knot nematode presence and its integrated management in pomegranate orchards located in Indian arid areas. *Horticultureae* 2022, 8(2), 160
8. Akath Singh, P. Santra, M. Kumar, N. R. Panwar and P. R. Meghwal. 2016. Spatial assessment of soil organic carbon and physicochemical properties in a horticultural orchard at arid zone of India using geostatistical approaches. *Environmental Monitoring and Assessment* (188):529-545
9. Akath Singh, B.K. Singh, Brajendra, A. Nath, B.C. Deka. 2010. Studies on the variability, inheritance and inter-relationships of mineral macro-nutrients and micro-nutrients in strawberry. *J. Horticultural Science & Biotechnology*. 85 (6): 551-555
10. Akath Singh, Kundan Kishore, Pradeep Kumar, P. S. Khapte, D. S. Mishra, Dalpat Singh, Hukam Singh Kothyari. Phenological growth and development stages of common fig (*Ficus carica* L.) under arid climate of India. *Folia Horticulturae*.35(2):395-402

Students guided – Ph.D – Nil M.Sc. – 1

Awards / Recognitions

1. ICAR Vasantrao Naik Award for Outstanding Research in Dryland Farming Systems
2. Rajbhasa Gaurav award by ministry of home affairs, Govt. of India
3. Fellow of Indian Academy of Horticultural Science New Delhi
4. Fellow Society for the Development of Subtropical Horticulture, CISH Lucknow
5. Fellow The Society for Advancement of Research on Pomegranate Solapur, Maharashtra
6. Fellow SHRD Society for Horticultural Research and Development U.P.
7. SARP Associateship The Society for Advancement of Research on Pomegranate Solapur.